CHIAYO

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TÜV CERT
DIN EN ISO 9001
Certificate NO:09 100 89126

GOOD DESIGN
PRODUCT

GREEN PRODUCT
It has been RoHS Compliant

ADVENTURE 80
Portable Sound System

OPERATION MANUAL

CHIAYO ELECTRONICS CO.,LTD

General

Congratulation for owning this all-in-one portable sound system. Please read this operating instruction thoroughly to fully understand its controls and functions.

There are 4 versions of Adventure 800, namely the
(1). Adventure 800 with Tape Deck. (Fig. 1)
(2). Adventure 800 with CD / USB Player. (Fig. 2)
(3). Adventure 800 with CD / USB Player & Digital Recorder. (Fig. 3)
(4). Adventure 800 with CD / USB Player & Tape Deck. (Fig. 4)
(5). Adventure Companion Speaker only (WA-517). (Fig. 5)

Adventure 800 with Tape Deck

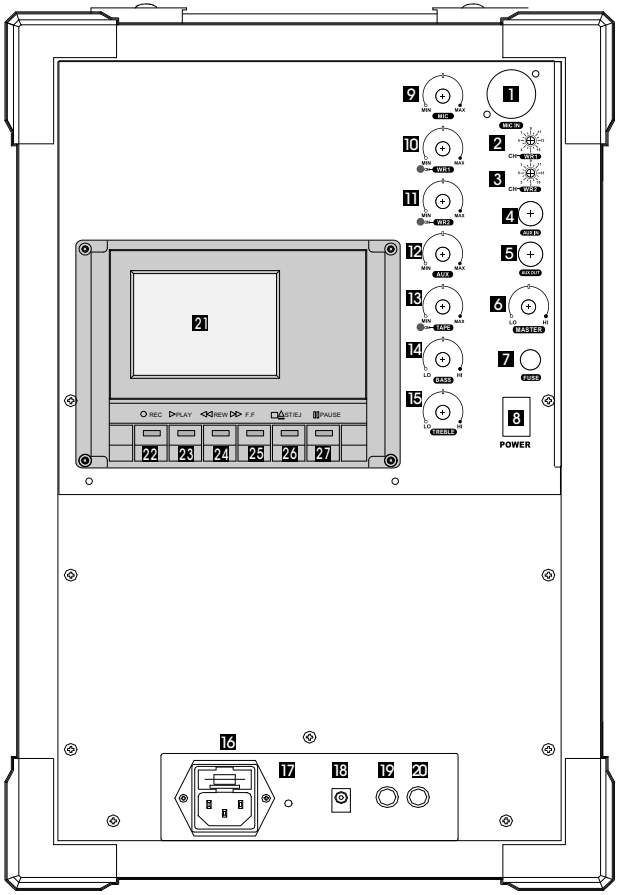


Fig. 1

1. MIC IN (BALANCE/UNBALANCE)
2. WR1 channel selector
3. WR2 channel selector
4. AUX IN
5.AUX OUT
6.MASTER VOLUME
7.FUSE
8.POWER (ON / OFF)
9.MIC
10.WR1 VOLUME
11.WR2 VOLUME
12.AUX VOLUME
13.TAPE VOLUME
14.BASS
15.TREBLE

16.AC INPUT JACK / FUSE
17.BATTERY STATUS INDICATOR
18.DC 24~32V INPUT
19.SPK OUT
20.SPK OUT (SWITCHED)

21.CASSETTE COVER
22.RECORD KEY
23.PLAY KEY
24.FAST REWIND KEY
25.FAST FORWARD KEY
26.STOP/EJECT KEY
27.PAUSE KEY

FCC Caution:

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and
(2)this device must accept any interference received, including interference that may cause undesired operation.

Maintenance-free Lead Acid battery

Guidelines for maintenance-free Batteries:

1. Battery should operate at temperatures between 15°C ~ 50°C. To ensure a longer life span, it should be kept between 5°C ~ 35°C. For optimum result, 20°C ~ 25°C will be ideal. When temperature falls 15 degrees below zero, battery will undergo some changes in its chemical contents and therefore cannot be recharged. Operating the battery at higher temperature will result in higher capacity but shorter lifespan, whereas lower temperatures operation has a longer lifespan but less capacity.
2. If the battery is not recharged 72 hrs after it is completely used, it will be permanently damaged.
3. When the battery is being charged, the internal gases will be electrolyzed into water at the negative charge, maintaining the battery's storage abilities with no water added. However, erosion at the charged ends of the battery will cause poor performance.
4. The battery's cycle lifespan (no. of charge and discharge cycle) is determined by the degree at which power is dissipated., especially the degree of discharged each time it is used and the recovery charging method. For normal use, the battery can be used for longer hours when less power is dissipated each time and vice versa. At 25°C, maintenance-free batteries could be charged 150 ~ 200 times at 100% discharge each time.
5. Decrease in capacity, internal short circuit, deformation in appearance, erosion of charged ends and decrease in open circuit voltage are symbols indicating battery is approaching the end of its life cycle.
6. When two batteries are used in parallel connection, the resistance of the cables should be kept equal.

Properties of the Lead Acid Battery:

1. Has no memory effect. Can be charged at anytime, even when the recharge indication light is not on.
2 .Performance and efficiency are affected by changes in the environment, especially temperature and humidity. (Best operated between 20°C ~ 25°C)
3. Battery discharge naturally according to a certain pattern even not in use. For best performance and a prolonged lifespan, it should be recharged every month even when not in use.
4. Under normal circumstances, battery could last for about a year.
5. When the battery's life expires, possible indicators include internal short-circuit, decrease in capacity, deformation in appearance, erosion of charged ends and decrease in operating voltage.

User's Precautions:

1. For first-time use, charge the battery for 10 hrs until it is fully charged.
2. To maintain performance and lifespan, if product has not been used for 3 months after the initial shipment, please fully charge the battery.
3. Before each use, it's advisable to charge the battery to its full capacity.
4. The average lifespan of the battery is one year. The user is advised to change the battery after one year of use.
5. The current consumption is in direct ratio with load current. The more current consumption, the less the operation time.
6. SMART and FOCUS operate on one 12V/2.7AH battery. ADVENTURE, CHALLENGER, and VICTORY operate on two 12V/4.5AH batteries.

Rear panel configuration (CD / USB Player)

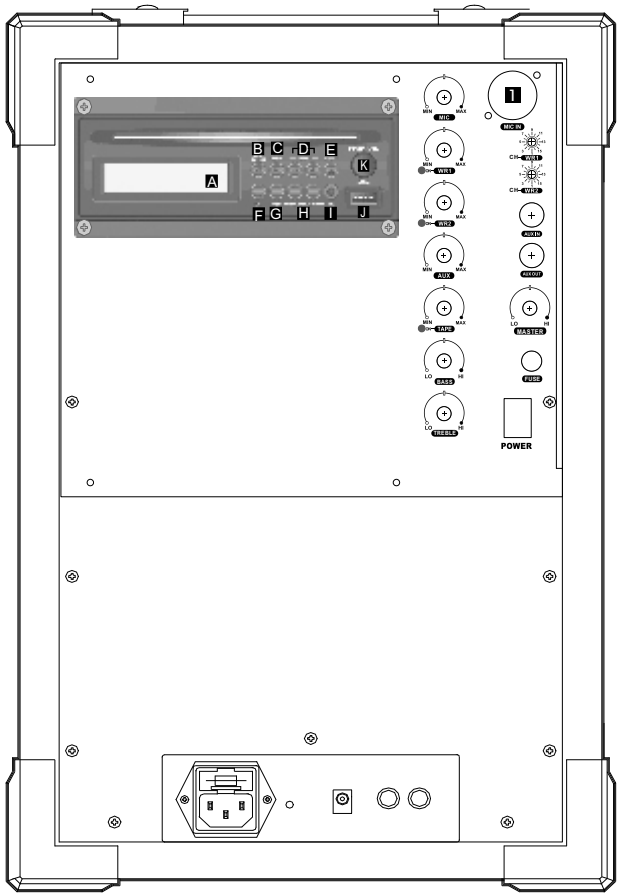


Fig. 2

1. LCD Display
2. PLAY/PAUSE
3. STOP
4. SKIP
5. EJECT
6. CD SELECTOR
7. USB SELECTOR
8. FOLDER SKIP
9. IR LED
10. USB INPUT
11. POWER/VOL.

CD player
remote control.

Adventure 800 with CD / USB Player & Digital Recorder

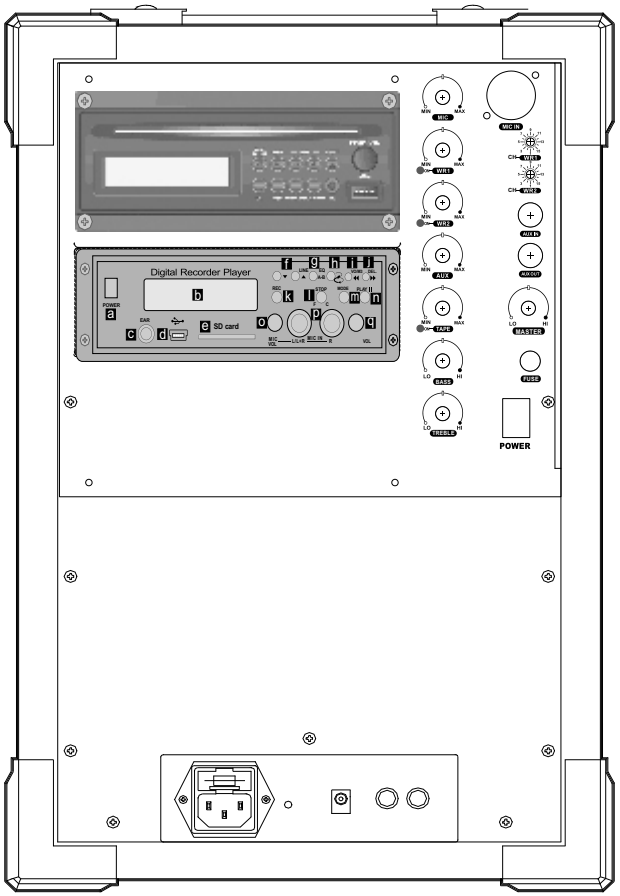


Fig. 3

a. POWER
b. LCD Display
c. EAR
d. USB
e. SD Card Slot
f. LINE▲▼
g. EQ
h. REPEAT
i. ◀◀
j. ▶▶
k. REC
l. STOP
m. MODE.
n. PLAY II
o. MIC VOL
p. MIC IN
q. VOL

Input Level Gain Control Adjustment

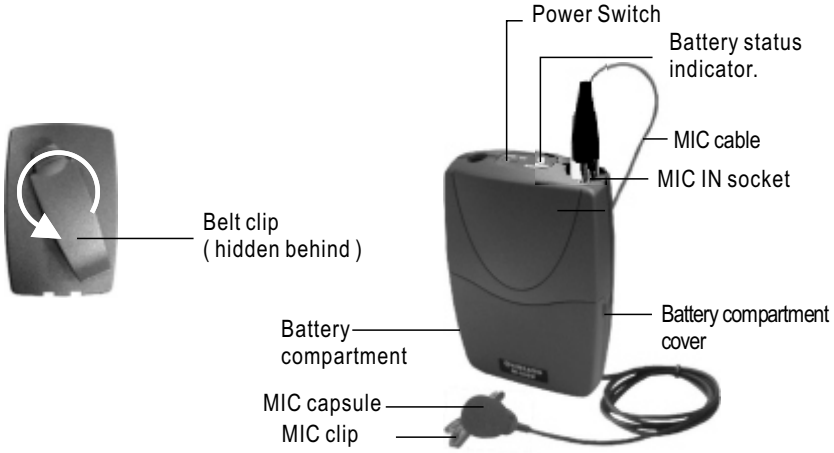
Low impedance (Lo-Z) " MT" & high impedance (Hi-Z) " GT" gain controls are situated inside the transmitter as shown in Fig 10. Gain controls are adjustment ports that enable you to use microphones of differing output levels and Guitar or instruments with Hi-Z output. To adjust microphone (Lo-Z) input levels, turn the " MT" control and to adjust the Guitar or instrument (Hi-Z) input, adjust the " GT" gain control to set the transmitter's desired audio input level.

Caution and tips on how to obtain the best results

1.Before inserting the batteries, please make sure that they are inserted according to the correct polarity.
2.For PLL-16-frequency agile version, before operation please make sure that the corresponding receiver MUST have the same frequency group and channel number as the transmitter.
3.For fixed frequency version, before operation please make sure that corresponding receiver MUST have the same frequency as the transmitter.
4.Before making any channel change, please switch off the power supply. The synthesized program works in such a way that a change of channel will only take place after a power off and on action. Otherwise, the previously selected frequency will stay unchanged.
5.After making a channel change, please make sure that the corresponding change is made on the matching receiver also. To be exact, changes MUST be made at both the transmitter and receiver.
6.The audio cable of M-1002 and SM-916 also serve as antenna. The length of the cable is cut according to the specific frequency range. Do not alter the length or mix around the cable of different transmitters. The use of wrong audio cable will affect the antenna efficiency of the transmitter!
7.Use only brand new Alkaline batteries. Do not use " general purpose " batteries. When batteries are weak, replace the three batteries altogether at the same time. Do not mix and use new and old batteries together.
8.Position the receiver such that it has the least possible obstructions between it and the transmitter. Line of sight is best!
9.The transmitter and the receiver should be as close as possible but not less than 1m.
10.A receiver cannot receive signals from two or more transmitters simultaneously.
11.Turn the transmitter off when it is not in use. Remove the batteries if it is not to be used for a period of time.

VHF Belypack Transmitter **M-1002**

Parts & Functions



Battery Installation

M-1002 uses 1 piece of 9V battery. To install new or replace the old battery, first open the battery compartment cover, then insert the new battery according to its correct polarity as indicated. For longer operation hour, Alkaline battery is recommended!

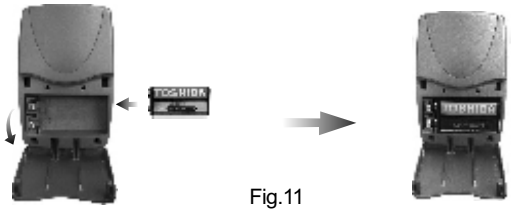


Fig.11

Belt Clip

This uniquely designed belt clip allows 360 rotation. Select the best position to achieve optimum wearing comfort.

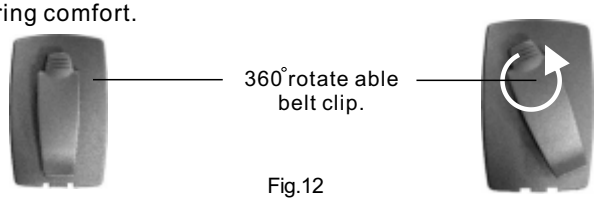


Fig.12

Adventure 800 with CD / USB Player & Tape Deck

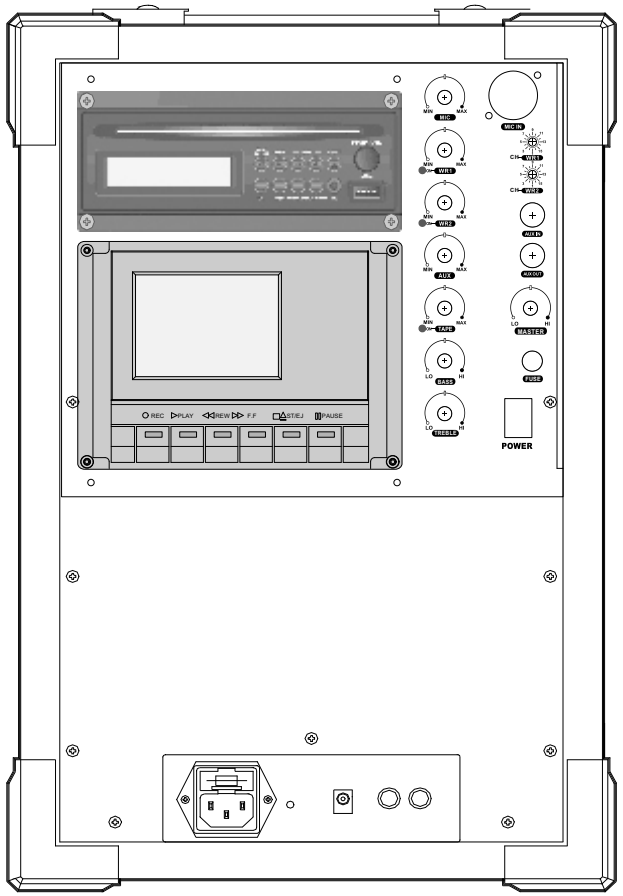


Fig. 4

Adventure Companion Speaker (WA-517)

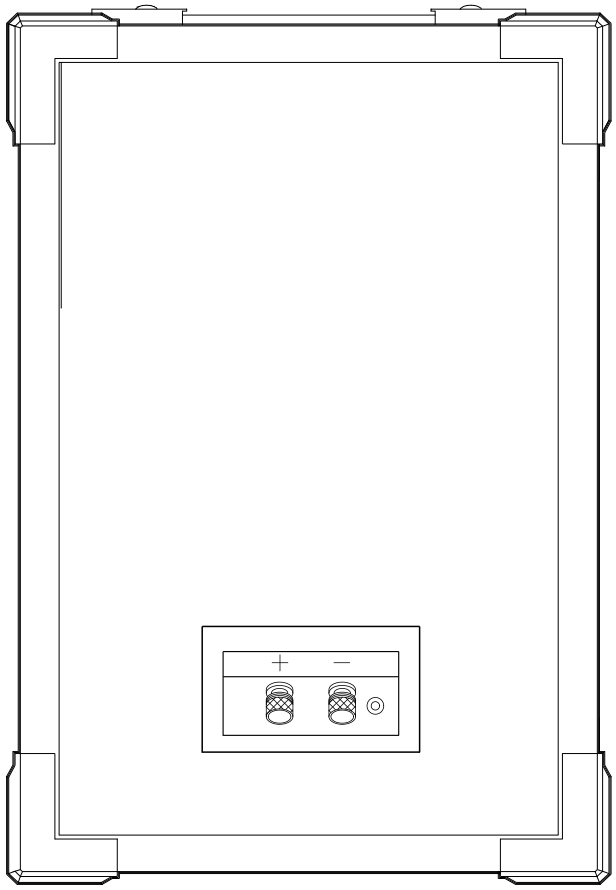


Fig. 5

Beltpack Transmitter **SM-816(UHF) / SM-216(VHF)**

Battery installation

This transmitter uses 3 pieces of " AA " size batteries (Alkaline battery is recommended). To install or remove the batteries, press the release buttons at the edges of the transmitter to open or close the cover as illustrated (Fig.1).

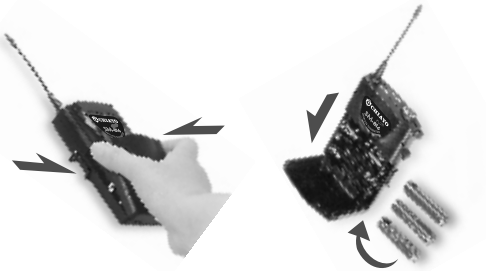


Fig.1

Beltclip installation

This specially designed detachable beltclip allows the user to wear the transmitter with antenna pointing upward or downward as illustrated. To wear the transmitter with the transmitter pointing upward, install the belt-clip as in Fig.2. To wear the transmitter with the antenna pointing downward, please install the belt-clip as in Fig.3.

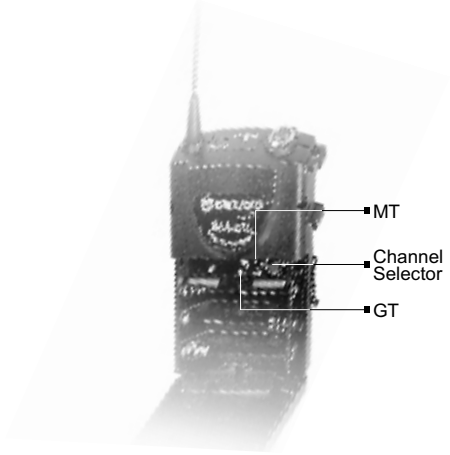
Fig.2

Fig.3

Channel selection and gain adjust

Channel selector and gain adjust are hidden in the designated cover of the front as illustrated.
To make channel selection and gain adjust, please press the designated cover and flip it open as illustrated. Channel selection can be made by rotating the selector with a small screw driver.

Gain adjust for Lavalier and Headset microphones can be done by adjusting the MT switch, whereas GT switch is for the gain adjust of electric Guitar and other high-impedance line level inputs.



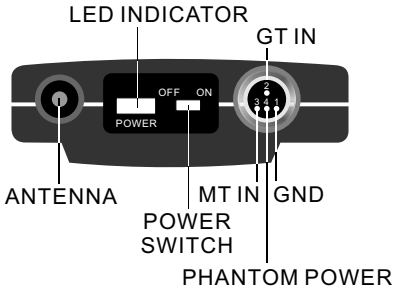
Installation of cable restraint

To prevent contact noise caused by constant tension applied to the connector,,a cable restraint is designed such that tension is totally reduced when it is properly used. When the audio cable go through the cable restraint, it could prevent sweat from going directly into the electronic board via the connector. This is another advantage of the cable restraint.

Installation of Lavalier / Headset microphones or instrument inputs

Depending on customer requirements, Lavalier / Headset microphone or instrument inputs could be connected to the transmitter via the audio input connector. User is free to choose the various input sources but is advised to take note that connector used must be compatible to each other. The pin configurations of mini XLR connector are as follow figure.

■ **mini XLR connector**



The Power Supply and basic Battery Management

The power supply of Adventure 800 system comes from the two pieces of 12V / 4.5 AH built-in rechargeable batteries (maintenance free Lead Acid type, which has no memory effect) . An understanding and knowledge of rechargeable battery is imperative in the operation of the portable sound system as it helps to give a trouble-free operation of this system.

After unpacking the unit for the first time, please charge the rechargeable batteries in the system first for at least 10 hours before any operation. This is a very important procedure that user MUST undertake in order to get the longest life span out of the batteries. Failure to follow this proper battery management instruction may cause the user end up paying for new batteries.

The rechargeable batteries were fully charged in the factory before shipment. However, the unit you have just unpacked could have been several months old and the built-in lead acid rechargeable batteries might have been discharged or drained. This is analogue of car which has been left unused for months and the restart is impossible due to flat battery. It is thus imperative that a full charge is absolutely necessary for a new system or system left unused for several months.

To charge the battery, simply plug in the AC supply and the charging process will start automatically and the battery status indicator will flash. When permanent Green light appears, it means the batteries are fully charged. Normal operation could now be resumed. When the charging indicator lights up in RED, it means battery is weak and charging is required. In an urgent case when the system must be used while the system is still under charging, for this system it is still possible as the AC power supply is designed such that it also provides the power for the system while charging the batteries but this could only be done when the charging process has started for about 5 minutes and some minimum energy has been stored in the batteries.

Operating the Wireless Microphone System

To use the First wireless system, switch on the receiver module power supply switch of WM1. Switch on the corresponding matching transmitter or handheld microphone (please refer to the operating instruction of the individual transmitter). When RF signal is being received by the receiver, the receiver RF signal indicator 1 will light up. Rotate the control WM1 and MASTER volume control clockwise to increase the volume. When voice is spoken into the microphone, amplified sound should be heard over the built-in speaker.

This instruction is for system which is equipped with two wireless receiver modules. To use the Second wireless system, switch on the receiver module power supply switch WM2. Switch on the corresponding matching transmitter or handheld microphone. When RF signal is being received by the receiver, the receiver RF signal indicator 2 will light up. Rotate the WM 2 control and MASTER volume control clockwise to increase the level. When voice is spoken into the microphone, amplified sound should be heard over the built-in speaker.

Operating the Wired / Cable Microphone

To use the wired microphone, simply plug in the wired microphone connector into the XLR / Phone jack combo connector . This unique connector accept either XLR or 1/4 Phone Jack male connector. Rotate the MIC In volume control and MASTER Volume control clockwise to increase the volume. When voice is spoken into the wired microphone, amplified sound should be heard over the built-in or external speaker.

Both wired and wireless microphone could be used simultaneously as there is a built-in mixer to mix both input signals.

When all the levels are set, simply use the MASTER volume control as main control.

Function of Speaker out

There are two types of Speaker out jack.

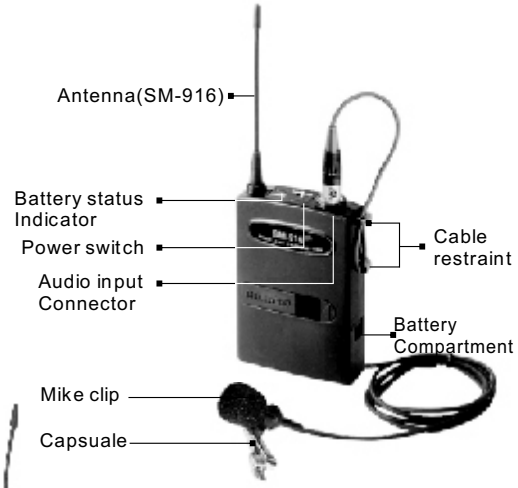
Speaker out (unswitched) When an external speaker is connected to this output, both the internal speaker of and the external speaker will have sound.

Speaker Out (switched) When an external speaker is connected to this output, the internal speaker will be muted and only the external speaker will have sound.

Beltpack Transmitter **SM-916(UHF)** / **SM-316(VHF)**

Battery installation

SM-916/SM-316 use a 9V battery. To insert the battery, first open the battery compartment cover by pressing the cover downward till the door flips open by itself (see below picture). When installing the battery, please beware of correct polarity. To put back the cover of the battery compartment, one has to press the cover in upward direction until it is locked.



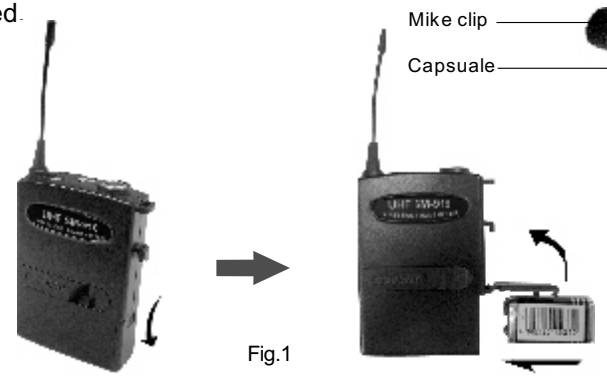
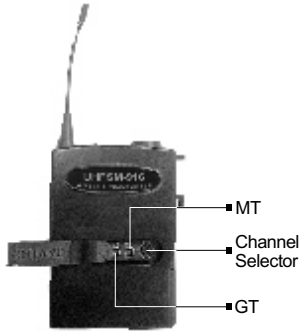


Fig.1

Channel selection and gain adjust

Channel selector and gain adjust are hidden in the designated cover of the front as illustrated. To make channel selection and gain adjust, please press the designated cover and flip it open as illustrated.
Channel selection can be made by rotating the selector with a small screw driver.

Gain adjust for Lavalier and Headset microphones can be done by adjusting the MT switch, whereas GT switch is for the gain adjust of electric Guitar and other high- impedance line level inputs.



Making changes to various settings in SM-5016

1.Making changes to CHANNEL / FREQUENCY:
Use UP or DOWN button to go to the CHANNEL /FREQUENCY page.

The cursor will flash to allow changes to be made. Pressing UP or DOWN button will increase or decrease the channel number. The corresponding frequency will change accordingly. When a desired channel(frequency) is being selected, it will be automatically saved and stored in the memory.

Remark : When changing transmitter frequencies, user should take care not to cause interference to other channels / users.

2.Making changes to Battery selection:
Use UP or DOWN button to go to the Battery selection page.

Press SET for about 2 seconds to activate the cursor. Press UP or DOWN button to move the cursor to either NiMH (rechargeable battery) or AKLN (Alkaline battery) position.

When the desired option has been selected, press SET for about 2 seconds to save and store the data in the memory.

Remark : "NiMH" must be selected when rechargeable battery is being used. Never select "AKLN" (Alkaline) when transmitter is intended for charging as Alkaline battery can not be charged ! Wrong selection of battery will cause battery sensing electronics to display wrong information and mislead charging status.

3.Input Level Gain Control Adjustment
Low impedance (Lo-Z) " MT" & high impedance (Hi-Z) " GT" gain controls are situated inside the transmitter. Gain controls are adjustment ports that enable you to use microphones of differing output levels and Guitar or instruments with Hi-Z output. To adjust microphone (Lo-Z) input levels, turn the "MT" control and to adjust the Guitar or instrument (Hi-Z) input, adjust the "GT" gain control to set the transmitter's desired audio input level.

Operating the CD / USB Player

Front remotable is an unique feature of Adventure 800. User can easily control this CD player by clicking its remote from both front and rear Adventure 800.
To begin operation switch on the CD Power after the main power of Adventure 800 has been turned on.

Keys	Functions	Panel	Remote
PLAY/ PAUSE	When this key is pushed during CD stop, play will start after track search. When this key is pushed during CD is playing, then it is changed to pause. When this key is pushed during CD is pausing, then it is changed to play.	V	V
STOP	When CD is not stop, if this key is pushed then CD will stop.	V	V
CD	When press this key will change to cd-mp3 mode.	V	V
USB	When press this key will changed to USB mode.	V	V
SKIP+ UP/CUE	**In stop mode:** Change the starting play track(file) during stop mode, cyclic to the first track, if it is in the last track. **In program entry mode:** Change to the next track(file) for program select . **In play mode, pause mode, program play mode, random play mode:** Single pressed, skip the playing track(file) to next track(file) for normal play/pause mode, to next program index track(file) for program play/pause mode, to next random track(file) for random play /pause mode. Continue pressed , fast forward during play/pause when pressed more than 0.7sec.	V	V
SKIP- DONW/REV	**In stop mode:** Change the starting play track (file) during stop mode, cyclic to the last track, if it is in the first track. **In program Entry mode:** Change to the previous track (file) for program select. **In play mode, pause mode, program play mode:** Single pressed, skip the playing track (file) to precious track(file) for normal play/pause mode, to previous program index track(file) for program play/pause mode. Continue pressed, fast reverse during play/pause when pressed more than 0.7sec.	V	V
FOLDER-UP	In stop mode: Skip the starting play folder to next folder during stop mode, cyclic to the first folder if it is in the last folder. In program entry mode: Change the file for program select to next folder's first file, cyclic to the first folder if it is in the last folder. In normal play mode: Skip the playing file to the next folder's first file.	V	V

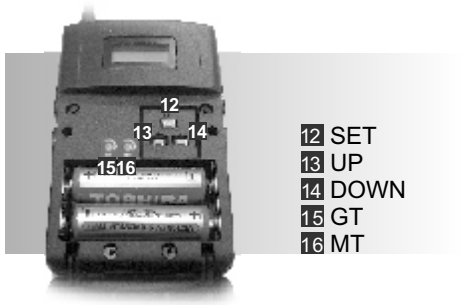
FOLDER-DOWN	In stop mode: Skip the starting play folder to previous folder during stop mode, cyclic to the last folder if it is in the first folder. In program entry mode: Change the file for program select to previous folder's first file, cyclic to the last folder if it is in the first folder. In normal play mode: Skip the playing file to the previous folder's first file.	V	V
PLAY MODE	In mp3 mode and in USB mode . If this key is pushed, PLAY mode is changed cyclically shown below. →PLAY ALL RANDOM → REPEAT TRACK → REPEAT FOLDER REPEAT ALL ← RANDOM REPEAT ← PLAY ALL ← IN CD mode If this key is pushed, PLAY mode is changed cyclically shown below → PLAY ALL RANDOM → REPEAT TRACK REPEAT ALL ← RANDOM REPEAT ← PLAY ALL. ←		V
EJECT	When this key is pushed, door is moved out.	V	V
PROG	Set to programming mode. When programming mode, [stop] key is pushed then program is all cleared.		V
MUTE	When this key is pushed during CD is playing, the set will mute the output. Push again, will recovery the output .	option	V
POWER	Power SW of the set .	V	V
ESP	In CDDA mode, Press"ESP" key , The ESP display lighted and the set is in electronic anti-shock state. The electronic anti-shock time is about 40 seconds. Press "ESP" key again, cancel the ESP function.		V
FIND	In MP3 mode : Press this key once FILE search mode changed . Press this key twice ALBUM search mode changed .If press this key long time once track is displayed .press twice ID3 TAG is displayed.		V V
0~10;	You can use these keys to select the track you want directly.		V
VOL.-	When this key is pushed , the volume will decrease by 1dB per step , the min. volume is 0dB.	ENCODE	V
VOL.+	When this key is pushed, the volume will increase by 1dB per step , the max. volume is 30dB.	ENCODE	V

Caution: This player does not accept 8-cm diameter CD.
User is advised to have the USB 2.0 formatted in " FAT " or " FAT 32 ". The built-in USB 2.0 player can not be able to read the MP3 files stored in your USB if it is not formatted by either " FAT " or " FAT-32 ". To avoid damage to the USB, remember to detach it only after switching off the player.

UHF Beltpack Transmitter **SM-5016**

Parts & Functions

1 Antenna
2 Battery weak / audio mute indicator
3 Audio mute switch
4 Mini-XLR connector
5 Power ON / OFF switch
6 LCD display
7 Charging port
8 Cover release button
9 Charging contacts
10 Lavalier microphone
11 Mic clip



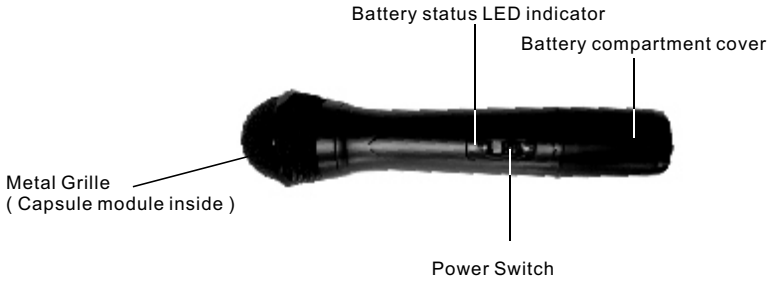
12 SET
13 UP
14 DOWN
15 GT
16 MT

Battery installation

SM-5016 uses 2 pieces of " AA " size batteries (Alkaline battery is recommended). To install or remove the batteries, press the release buttons at the edges of the transmitter to open or close the cover as illustrated below.

VHF Handheld Transmitter **Q-1002**

Parts and Functions



Battery Installation

Q-1002 uses 1 piece of 9V battery. To install new or replace the old battery, First unscrew the battery cap from the battery compartment, then insert the new battery according to its correct polarity as indicated. For longer operation hour, Alkaline battery is recommended!

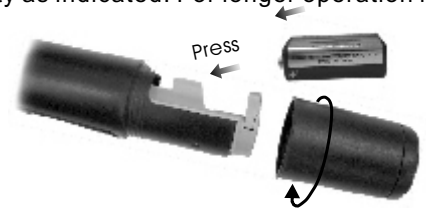


Fig. 5

- After putting the battery cover back to the housing , slide the switch to "ON" position as shown in Fig.6.

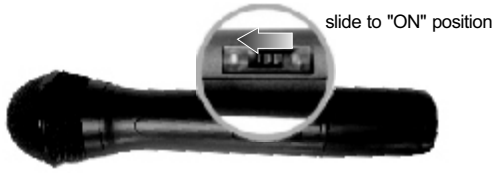


Fig. 6

- As soon as the switch is on , the battery-status indicator will give a flash , indicating a normal operation. If there is no flash , it indicates either power supply is not available or battery is installed wrongly.
- After switching on , the RF signal indicator LED(s) of matching receiver will light up , indicating the microphone signal transmission is in normal operation.
- Switch off the power switch when the microphone is not in use , meanwhile , remove the battery out of microphone if it is not in to be used for an extended period.

Operating the Digital Recorder

Product Features :

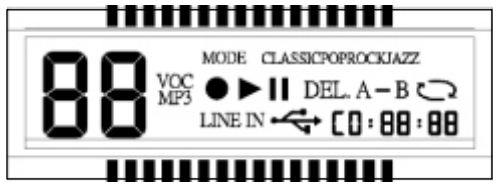
1.Digital record to MP3 compression format
2.Highest sample rate at 44.1KHz, 128Kbps (as CD quality).
3.1 - 99 recording tracks.
4.Equiped with 128MB flash memory for 60 min. recording time.
5.Available expanded memory socket of SD card. Up to 512MB
(When using 512 MB SD card, the recording time is available for over 8 hours.)
(If using 1G MB SD card, it will be divided into 99 recording tracks, each track with recording time less than 9:59:59 will be able to display time function on LCD.)
6.USB port to PC for easy download or duplication.
7.EQ mode selection (5 modes: Normal, Classic, Pop, Rock, Jazz)
8.REPEAT function (A-B Repeat, Repeat, Repeat All)..
9.Time counting
10.Two MIC-IN (L/L+R, R) jacks.
11.Line-in control key.
12.Stereo earphone jack.
13.Tack select, Play, Stop, Pause, Forward & Rewind control keys.
14.Mode control keys.
15.Rotary Volume Control for MIC REC. and Volume Level.

Usual manual of Digital Recorder & Player

1.Key---Power ,REC ,PLAY(II) ,■ ,MODE ,▼,▲(/LINE IN) , A-B(/EQ) , ↷ (↶), <<(/VOC,/MP3) , >>(/DEL.)

2. Tracks----1~99 tracks. May store 99 tracks both in VOC mode and MP3 Mode, flash memory or SD card. Built-in 128MB NAND flash memory has a capacity of approx. 60 min. recording time.

3.LCD:



3-1 MODE key
3-2 EQ select(CLASSIC, POP, ROCK, JAZZ)
3-3 VOC mode
3-4 MP3 mode

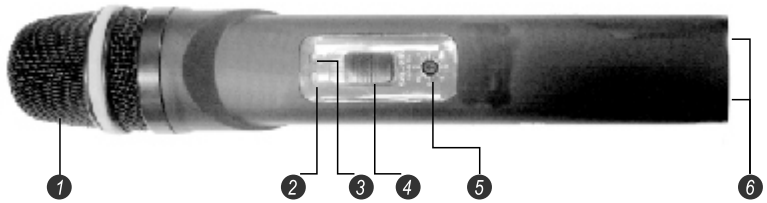
3-5 ● Recording
3-6 ▲ Playing
3-7 II Pause
3-8 DEL.: Delete file
3-9 A-B: A-B repeat
3-10 Repeat
3-11 Repeat All
3-12 LINE IN: Line-in audio source is available
3-13 Connecting to PC through USB
3-14 ⊟⊟ Track no.
3-15 ⊟⊟:⊟⊟ Time counting
3-16 F: Using flash memory
3-17 C: Using SD card

4.Key control

4-1 Power key
4-2 Upper key：Upper key for track selection. Track number will move quickly when push still for two seconds (this function will not work in MP3 mode).
4-3 Down key：Down key for track selection. Track number will move quickly when push still for two seconds (this function will not work in MP3 mode).
4-4 REC key：Record key. Select track no. in VOC mode in advance, push REC key to record, then push ■ key to stop record. If the track you want to record is occupied, the LCD will show "≡≡ " you must delete the content of the track before you record. When the memory is with 30 seconds left, the LCD will start to count 30,29,28, 27.....6,5,4,3,2,1,0 You can use microphones LINE IN audio source or both mixed source for recording source.
4-5 Play/ II key： Play key. Select the track no. you want to play, then push PLAY key to play. Push PLAY key during playing will pause play, then push PLAY key again to start playing. Push STOP Key to stop play.
4-6 ■ key：STOP key. Push the key to stop all the motions, ex.: recording, playing, track selection..◦
4-7 ▶▶key(Forward)：Forward key. The playing will move forward when press the key, back to normal speed when release the key.
4-8 ◀◀key(Rewind)：Rewind Key. The playing will move rewind when press the key, back to normal speed when release the key.
4-9 A-B repeat key：During playing, push this key to indicate any point as start point (A point) and finish point(B point) on a track, the machine will repeat from A to B point until you push the key again to release the function and continue to play.
4-10 & Repeat key：In MP3 mode during playing, push REPEAT key once to"epeat the track" the LCD will show , and push REPEAT key twice to"repeat all the track" , the LCD will show . Push the key at the third time to release repeat function. The "Repeat all " function can not be used in VOC mode.

Handheld Transmitter **SQ-816(UHF) / SQ-216(VHF)**

Parts & functions



1. Capsule with metal grille
2. Battery normal indicator (Green)
3. Battery low indicator (Red)
4. Power on/off switch
5. Channel switch
6. Charging port

Battery installation

SQ-816/SQ-216 transmitter requires 3 pieces of " AA " size battery to operate. Please insert the batteries according to the correct polarity as indicated. To open the battery compartment, press and slide down the cover until it clicks and locks. Further sliding movement will remove the cover.

Changing of capsule

This microphone has a modular design. To change or replace a capsule, Open the grill to pull out and plug in the capsule as shown in the following figure.

Operating instruction

1.Before operation, please check and make sure that transmitter & receiver are of matching frequency or frequency group.

2.To switch on the microphone, put the switch to "ON" position. The green LED indicator will light onto indicate that battery is fresh. When RED LED lights on, it indicates that battery is weak, thus a replacement is necessary.

3.For best result, alkaline battery is recommended. Please remove the battery if the transmitter is not to be used for a longer period.

4.When necessary, mic capsule could be replaced by pulling out and plugging in the new one, either dynamic or condenser for SQ-916 / SQ-316.

5. **MODE** key**------** Push the MODE key with another key for special function selection. The LCD will show "MODE" when push MODE key, you shall push another function key to perform the function. If you does not push another function key within 5 seconds, the machine will back to idle mode. Following is the detail of special function keys.

5-1 **MODE** key + ▲**(/LINE IN)** key:LCD will show "LINE IN", and select line in audio source as recording source.

5-2 **MODE** key + **A-B(/EQ)** key :For EQ select function. EQ sequence is Normal、Classic、Pop、Rock、Jazz. (Normal EQ will not be shown on LCD)

5-3 **MODE** key + ◀◀ **(/VOC,/MP3)** key: To select VOC mode (Record from microphone or LINE IN source) or MP3 mode (Download *.mp3 files from PC).

5-4 **MODE** key + ▶▶ **(/Del.)** key : When push these two keys, the LCD will show DEL,you must push ▶▶ **(/Del.)** key again to delete the track. The LCD will show"DEL" until the delete process is finished.

5-5 **MODE** key + ■ **key :**Change flash and SD card under PLAY and Idle modes.

6. The machine offers extended connectors:

6-1 **EAR :**for earphone
6-2 :USB connector to PC
6-3 SD card:for extended SD memory card,up to 512MB
(When use 512 MB SD card, the recording time is available for over 8 hours)
(If use 1GMB SD card, it will be divided into 99 tracks recording, each track of recording time no more than 9:59:59 will be able to display time function on LCD)
6-4 MIC IN：connect to two microphones

7. **ROTARY VOLUME CONTROL**
7.1 MIC REC. Rotary Volume Control
7.2 Level Rotary Volume Control.

8. **USB CONNECTION :** You can easily copy MP3 files from computer to the machine through USB connection.

A. Install Hardware: Connect the machine and your computer with a USB cable. You computer will recognize a new removable storage device automatically. You can add, delete, copy, and preview files. (If the operation system of your computer is Window 98 or below, you must install USB driver for first use. The USB driver is included.)

B. Store new files to VOC mode: MP3 files on the computer can be stored to VOC mode. However, the file names must be renamed as following format:

B-1：If you want to store the file to flash memory in VOC mode, you must rename it asM_INT _XX.MP3 (XX stands for track location)

B-2：If you want to store the file to SD card in VOC mode, you must rename it as M_EXT_XX. MP3 (XX stands for track location) **File format must be MP3 to work.**

C. Store new files to MP3 mode: *mp3 or *wma files on the computer can be stored to MP3 mode, no need to rename the file, it will store to MP3 mode automatically.

E: After completing all operations on computer, please detect the USB connection then to operate the machine.

*** * * NOTICE**：**Please read the following notice before you use our DIGI- REC Series .**

9. Please use the one with cooperate specification (marks on the back of the machine).
Please turn off the power when you do not use the machine for a period of times.
* To keep stable data transmission, please do not twist the USB cable during data transmission.
* Please do not press the LCD monitor heavily, or touch it with finger or sharp articles.
* Please prevent water leak into the machine.

10 . The SD card is a very precise electronic part, please use it according to the following notice:
*To prevent taking the SD card out of the machine during data transmission.
*Do not bend, strike, drop or take apart the SD card.
*To prevent to place the SD card in a high temperature, high humidity, dusty place, or a place full with static electricity.
*Please make sure the SD card you are using has been format.
*Make sure the write protection switch of the SD card is released when you are recording .
*Our product will process large amount of messages during recording and playing, we strongly suggest you to use high speed SD card as extension memory card, to prevent noise, data lose or any transmission problem.

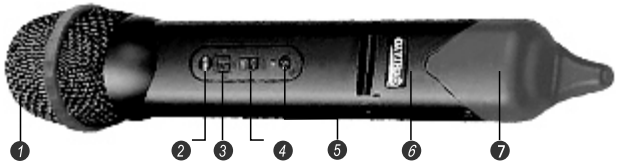
*** We have tested and approval the following brands of SD card for our machine, they are:**
Toshiba SD-M51225R2W 512MB
Apacer SD 120X 1GB
Apacer SD 256MB

11. We do not guarantee the function, operation, or life of any SD card is used in our machine. We do not also take any responsibility of indemnity for the damage of SD cards.

12. Same as other digital stock products, user must save the inner documents from time to time. This product will not take any responsibility due to documents lost directly or indirectly damage caused.

Handheld Transmitter **SQ-916(UHF)** / **SQ-316(VHF)**

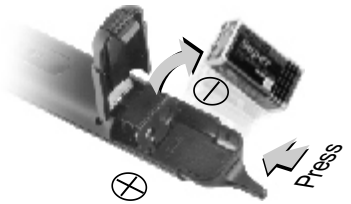
Parts & functions



1. Capsule with metal grille
2. Battery indicator
3. Sensitivity switch
4. Power on/off switch
5. Battery cover
7. Color cap

Battery installation

SQ-916/SQ-316 use a 9V battery for power. To change or replace the battery, please remove the color cap first, then press the bottom of battery compartment to release the cover as shown below.



Sensitivity switch

This microphone has a sensitivity switch. For close mouth singing or normal speech, please put the switch to L (Low) position. For tripod-mount speech, please put the switch to N (Normal) position.

■ Low Sensitivity ■ Normal Sensitivity

Making changes to various settings in SQ-5016

1.Making changes to Channel:
Use UP or DOWN button to go to the CHANNEL/ FREQUENCY page. The cursor will flash to allow changes to be made. Pressing UP or DOWN button will increase or decrease the channel number. The corresponding frequency will change accordingly. When a desired channel is selected, it will be automatically saved and stored in the memory.

2. Making changes to Battery selection:
Use UP or DOWN button to go to the Battery selection page.

Press UP or DOWN button to move the cursor to either NiMH (rechargeable battery) or AKLN (Alkaline battery) position.

When the desired battery has been selected, it will be automatically saved and stored in the memory.

Remark : "NiMH" must be selected when rechargeable battery is being used. Never select "AKLN" (Alkaline) when transmitter is intended for charging as Alkaline battery can not be charged ! Wrong selection of battery will cause battery sensing electronics to display wrong information and mislead charging status.

3. Making changes to Sensitivity Level:
Use UP or DOWN button to go to the SENS SET page.

Press UP or DOWN button to increase or decrease the Sensitivity Level of the transmitter. The MAX level is 4 and the MIN level is 1.

When a desired sensitivity level has been selected for your application, it will be automatically saved and stored in the Memory.

Remark : When selecting Sensitivity level, please keep in mind that Level 1 is for close proximity singing purposes whereas Level 4 is for use of transmitter on tripod mount for speech purposes. When Level 4 setting is used for close proximity singing, high SPL input will result in undesirable distortion in the output.

After performing setting changes, you could turn the protective cover 180° in either direction to block the buttons from being accidentally adjusted.

Operating the Tape Deck

Keys		Functions
▶	PLAY	Press this key to play the tape.
●	REC	Press this key together with PLAY key for recording.
II	PAUSE	Press this key to pause the play. Press again to continue the play.
▶▶	F.FWD	Press this key for fast forward .
◀◀	REW	Press this key for fast reverse.
■▲	ST/EJ	Press this key to stop / slot / remove the tape.

Volume / Tone control

Rotate the power/volume control knob of TAPE to adjust the volume of the Cassette deck. For tone setting, turn BASS to adjust the output of high pitch and turn BASS to adjust the output of low pitch.

Simple DIY Trouble-shootings:

1. No sound when speaking into the wireless microphone

Please verify the followings :

1.1 Main power switch should be ON. When no light appears, it means that the battery is weak. Please plug in the AC cable to charge the battery.
1.2 WM1 should be switched on. When two wireless microphones are used, both WM1 and WM2 should be switched on. When this is done, please verify that the MASTER volume control is been used to adjust to the desired volume.
1.3 Wireless microphone should be put to ON and verify that the battery is O.K. (please refer to wireless microphone operating manual) and observe the RF signal received on the RF indicator 1 or 2.
1.4 Please verify that the frequency on the wireless microphone and the corresponding built-in wireless receiver module are exactly the same.

2.No sound when CD / USB Player, Digital Recorder or Tape Deck is used.

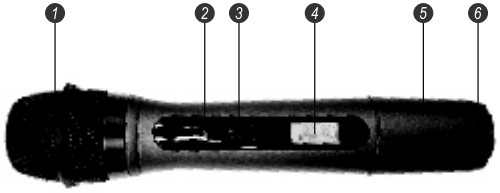
2.1 Main power switch should be ON. When no light appears, it means that the battery is weak. Please plug in the AC cable to charge the battery.
2.2 Please make sure that if both the Master PWR and the designated Power/Volume control are switched on. If either PWR isn't turned on, the module won't function.
2.3 Follow the proper operating instruction of CD / USB Player, Digital Recorder and Tape Deck.

No power supply

1.Battery is faulty
2.Battery is not charged.

UHF Handheld Transmitter **SQ-5016**

Parts and functions



1. Microphone capsule module
2. Battery status LED
3. ON/OFF switch
4. LCD
5. Battery compartment
6. Rotating protective cap for controls (also serves as color identification cap)
7. Lock / Unlock
8. Set
9. Up
10. Down
11. Charging port
12. Name plate

Changing of capsule

First unscrew the metal grill from the housing and take out the capsule to be replaced. Then insert a new capsule. Either dynamic or condenser type can be chosen from location to location.

Battery installation

SQ-5016 microphone requires 2 pieces of " AA " size batteries to operate. Please insert the batteries according to the correct polarity as indicated.

Caution

Many batteries are known to have leakage problem of conductive and corrosive liquid. Please observe the rule to remove the batteries if they are not to be used for a longer period.
Due to various unstandardized sizes (diameters) of " AA " batteries, this battery compartment is designed to accommodate the most common Alkaline batteries only.